

Claims

1. A storage device comprising: at least first and second frames and one or more support members for maintaining said at least first and second frames at a spaced distance apart, said support members and frames defining the shape of the storage device, and sheet material depending between said at least first and second frames and/or said one or more support members forming at least side walls of the device, said device movable between a flattened condition and an erect condition by user manipulation of said frames, said user manipulation including rotating at least one of said frames relative to another of said frames to twist the device and move the device between said flattened and erected conditions, and wherein when the device is in the collapsed or erect conditions, the support members are substantially straight.
2. A storage device according to claim 1 wherein the frame means is rotated about a substantially central axis thereof.
3. A storage device according to claim 1 wherein the at least first and second frame means are rotated in a substantially opposing direction to each other between said flattened and erect conditions.
4. A storage device according to claim 1 wherein one of the first or second frame means is held in a stationery position and the other of the first or second frame means is rotated relative thereto to move the device between said flattened and erect conditions.
5. A storage device according to claim 1 wherein the one or more support members are formed from a flexible material

to allow the flexing thereof when one of the frame means is rotated relative to another of said frame means.

6. A storage device according to claim 5 wherein the support members are resilient so as to return to the substantially straightened condition once force is released therefrom.
7. A storage device according to claim 1 wherein the ends of the support members are located in channels and/or pockets on the device and when the device is in an erect condition the channels and/or pockets are spaced a sufficient distance apart to allow the support members to be substantially straight.
8. A storage device according to claim 7 wherein when one of the frame means is rotated relative to another frame means, the distance between the pockets or channels housing at least the ends of each support member located between the frame means is initially reduced which causes each support member to be placed under increased tension causing the same to bend or flex.
9. A storage device according to claim 8 wherein further rotation action causes the distance between the pockets or channels to increase to allow each support member to straighten and resulting in the portion of the device between the frame means to be moved between the erected and collapsed conditions.
10. A storage device according to claim 7 wherein the ratio of the length of the support member and spacing of the pockets or channels for housing at least the ends of the support member is such that the support member is caused to be placed under increased tension on initial relative rotation of

the frame means, followed by reduced tension as subsequent increased or decreased rotation of the device takes place.

11. A storage device according to claim 1 wherein the whole or substantial part of the support members are located in a channel or pocket of sheet material.
12. A storage device according to 11 wherein the channel or pockets which house the ends of a support member are located adjacent the respective frame means which are required to be manipulated relative to each other in order to move the device between said erected and flattened conditions.
13. A storage device according to claim 1 characterised in that the support members are elongated in form.
14. A storage device according to claim 1 wherein the first and second frame means form the base and top of the device respectively.
15. A storage device according to claim 1 wherein the first and second frame means form first and second spaced side walls of the device.
16. A storage device according to claim 1 wherein the first and second frame means are substantially rigid.
17. A storage device according to claim 1 wherein the sheet material moves with the frame means and/or support members between said flattened and erected conditions.
18. A storage device according to claim 1 wherein one or more subframe members are provided which are movable

independently of said at least first and second frame means and/or support members between said flattened and erect conditions.

19. A storage device according to claim 1 wherein there is provided at least three frame means defining at least two sections within the storage device, each section of the device being collapsed independently of the other section.
20. A storage device according to claim 19 wherein in order to collapse a section of the device one of the frame means are twisted relative to the other of the frame means which defines that section thereby moving that section to a collapsed condition.
21. A storage device having a central cavity defined by first and second frame members, said frame members spaced apart by a series of support members with their ends positioned in the respective peripheries of the frame members, said device movable between erected and storage conditions and wherein the support members with the device in the erected condition lie substantially perpendicular to the frame members and the relative rotation of the frame members causes a twisting action on the support members and hence moves the frame members to the storage condition in which they are adjacent and parallel to each other.
22. A method of moving a storage device between flattened and erected conditions, said storage device including at least first and second frames and one or more support members arranged so as to maintain said at least first and second frames a spaced distance apart when in an erect condition and for defining the shape of the storage device, said device further provided with sheet material depending between said

frames and/or said support members and wherein the method includes the steps of rotating at least one of said first and second frames relative to the other of said frames to twist at least a portion of the device between said frames, said rotation occurring in the first direction for moving the device to a flattened condition and in an opposite direction for moving the device to an erected condition, the support members being substantially straight in the erect or flattened conditions.

23. A storage device including at least first and second frames and one or more support members for maintaining said at least first and second frames a spaced distance apart when the device is in an erected condition, said support members and frames defining the shape of the storage device, and sheet material between said at least first and second frames and said one or more support members forming at least side walls of the device, said device movable between a flattened condition and an erected condition by user manipulation of said frames and wherein at least one of said at least first and second frames is required to be rotated relative to the other of said frames to twist the device and move the device between said flattened and erected conditions and at least one of said first and second frames comprises an enclosed loop frame.